



Part Number: 139463

Blue Hose®, (1 pr) 20 AWG (7x28) TC, PE/PVC, Foil+TC Braid Shld, Steel Armor, CM

Product Description

One 20 AWG pair stranded (7x28) tinned copper conductors, polyethylene insulation, overall Beldfoil® (100% coverage) plus tinned copper braid shield (55% coverage), PVC inner jacket, steel interlocked armor, PVC outer jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
20	7x28	TC - Tinned Copper	0.038 in	1

Total Number of Conductors: 2

Insulation

Material
PE - Polyethylene

Color Chart

Number	Color
1	Clear & Blue

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28 mm
Braid	2	TC - Tinned Copper		55 %			

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.238 in
	0.563 in

Electrical Characteristics

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
19.7 pF/ft	36 pF/ft

Construction and Dimensions

Stranding

Lay Length	Diameter
Yes mm	0.154 mm

Armor

Type of Armor	Material
Interlocked Armor	Steel

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.5 Ohm/1000ft	4.1 Ohm/1000ft

Impedance

Nominal Characteristic Impedance
120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100ft
10 MHz	2.1 dB/100ft
50 MHz	5 dB/100ft
100 MHz	7.5 dB/100ft
200 MHz	11 dB/100ft
400 MHz	16 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

High Freq

Frequency [MHz]
1 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz

Inductance

Nominal Inductance
0.12 µH/ft

Voltage

UL Voltage Rating
300V RMS

Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CM, CMG FT4, HLBCD
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Standards

Customer Part Number Reference Spec:	Allen Bradley P/N 1770-CD
NEC/(UL) Specification:	CM, CL2

Flame Test

UL Flammability:	UL1685 UL Loading
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Safety

UL Voltage Rating:	300 V RMS
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Mechanical Characteristics

Operating Temp Range:	-40°C To +60°C
Bulk Cable Weight:	224(lbs/1000ft)
Max Recommended Pulling Tension:	205(lbs)
Min Bend Radius/Minor Axis:	6.5(in)

Temperature Range

UL Temp Rating:	60°C
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Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Variants

Item #	Color
139463 J221000	BLUE, STRONG
139463 J226000	BLUE, STRONG

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